

Title (en)

OPTICAL MODULATOR AND BEAM STEERING SYSTEM INCLUDING THE SAME

Title (de)

OPTISCHER MODULATOR UND STRAHLENKSYSTEM DAMIT

Title (fr)

MODULATEUR OPTIQUE ET SYSTÈME D'ORIENTATION DE FAISCEAU LE COMPRENANT

Publication

EP 3796079 B1 20230419 (EN)

Application

EP 20171307 A 20200424

Priority

- KR 20190116871 A 20190923
- KR 20190127160 A 20191014

Abstract (en)

[origin: CN112542764A] Provided is an optical modulator including a plurality of unit cells, an active layer including a plurality of refractive index changing areas that are separated from each other, each of the plurality of refractive index changing areas having a refractive index that changes based on an electrical signal applied thereto, a plurality of antenna patterns provided over the active layer, and a mirror layer provided under the active layer opposite to the plurality of antenna patterns.

IPC 8 full level

G02F 1/29 (2006.01)

CPC (source: CN EP US)

G02F 1/015 (2013.01 - US); **G02F 1/29** (2013.01 - CN); **G02F 1/292** (2013.01 - EP); **H01S 5/0085** (2013.01 - US); **H01S 5/0211** (2013.01 - CN); **H01S 5/026** (2013.01 - CN); **H01S 5/18375** (2013.01 - US); **G02F 2202/10** (2013.01 - US)

Cited by

CN114268020A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3796079 A1 20210324; **EP 3796079 B1 20230419**; CN 112542764 A 20210323; JP 2021051293 A 20210401; US 11294207 B2 20220405; US 11747657 B2 20230905; US 2021088812 A1 20210325; US 2022206322 A1 20220630

DOCDB simple family (application)

EP 20171307 A 20200424; CN 202010283088 A 20200410; JP 2020137046 A 20200814; US 202016848433 A 20200414; US 202217697791 A 20220317